

SEMINARS SEMINAIRES

Tuesday 15 September

MEETING ON FASTBUS DEVELOPMENTS

at 09.00 hrs – Theory Conference Room

AGENDA

1. *Availability of general purpose FASTBUS equipment in the EP Pool*
by B. RIGHINI / CERN
1. *Interface from FASTBUS to 3081/E*
by B. MARTIN / CERN
3. *MACFB : A software package for the system MACVEE-FASTBUS*
by B. THEURANT / LPNHE, Paris
4. *A FASTBUS coupler with fast blocktransfer*
by J.F. RENARDY, Saclay
5. *Various*
 - a) *News from the US after Trigroup meeting, on networking in FASTBUS, etc.*
 - b) *European FASTBUS Support Group*
 - c) *A.O.B*

Tuesday 15 September

TECHNICAL PRESENTATION

10.00 - 17.00 hrs

bldg 6, 2-004

LeCroy SA (CH/USA) will exhibit new products from their range of fast data acquisition instruments. FASTBUS devices include interfaces to PC and CAMAC, and the 15 bit, 275 microsec Multichannel Charge ADC. CHAMBER MOUNTED CARDS include a new wide range, high sensitivity charge preamplifier, another provides 16 channels of fast amplifier and discrimination. WAVEFORMS are offered from a programmable function generator, which steps at 200 MHz from a 64 Kword memory. RECORDINGS can be single shot at 1.35 Gigasamples per second.

REPRESENTATIVES from various product divisions will be on hand to discuss applications, measurement and data handling problems and system or trigger set-ups.

List of instruments and accessories

Strück FASTBUS powered crate

LeCroy Equipment :

| | |
|---------|------------------------------------|
| 1821 | Segment Manager/Interface |
| 1885F | 96 channel Fast, 15 bit charge ADC |
| 1892 | 1 Mbyte mass memory |
| 1879 | 96 channel, 2ns TDC |
| 1691A | IBM PB FASTBUS interface |
| 2724 | 24 channel preamplifier card |
| 2735DC | 16 channel amp/disc card |
| 9100 | Programmable wave generator (AFG) |
| 9400 | 125 MHz digital oscilloscope |
| 6880A | 1.35 GS/s, 8 bit digitiser |
| 6010 | Magic controller |
| TR8828C | 200 MS/s, 8 bit digitiser |
| MM8104 | 32 Kword, 8 bit memory |
| 8013A | CAMAC minirate |

IBM PCAT Personal computer
MON.2 Colour monitor
4300B 16 channel FERA ADC

Language : English

Information : M. Diraison / FI / 4585

Tuesday 15 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

e^+e^- interactions at high energies

by S.L. WU / Wisconsin

Talk given at the 1987 International Symposium on Lepton and Photon Interactions, Hamburg.

* Tea and coffee will be provided at 16.00 hrs.

Wednesday 16 September

TECHNICAL PRESENTATION

10.00 - 12.00 hrs and 14.00 - 16.00 hrs

bldg 73, 2-027

Elecom, Electronic-Components (CH), representing Hegener + Glaser AG (D) and Futaba (J), will present a new series of display modules in vacuum-fluorescent technique : (the vacuum-fluorescent tubes don't need electronic control) – broad range in alphanumeric characters with different sizes and shapes – compact design and flat construction – easy to connect with DC + 5 V and direct interface either ASCII parallel or serial – wide temperature range (for special application from -45°C to $+85^\circ\text{C}$) – vibration (10-55 Hz) max 4 G – shock 40 G – brightness about 650 cd/m^2 (200 ft-L) – less electromagnetic interference than CRT's – long life (30000 hrs) – custom made units from quantity 200.

Applications : measuring equipment – computer terminals in areas with very difficult environment where CRT's are not necessarily needed.

Languages : English, French, German

Information : M. Diraison / FI / 4585

Wednesday 16 September

THEORETICAL SEMINAR

at 14.00 hrs – Theory Conference Room

A new description of high energy antiproton (proton)-proton elastic scattering

by S. BARSHAY / Technische Hochschule, Aachen

We develop a generalization of the geometric picture for high energy antiproton (proton)-proton elastic scattering. The eikonal at each impact parameter is considered to have fluctuations about an average value, and is thus characterized by a distribution. A connection to parton branching is made through the specific form of the distribution function for the eikonal. A unified physical theory with significant fluctuations accurately describes the antiproton (proton)-proton data at both $\sqrt{s} = 546\text{ GeV}$ and 53 GeV . The fluctuation parameter is remarkable well given by that directly observed in multiparticle production.

Mercredi 16 septembre

REUNION OUVERTE DU LEP

à 14.30 h – Auditorium du LEP
dernier étage du bât. 30

Installation et tests LEP accélérés

par E. PICASSO, G. BACHY, D. NEET /
CERN-LEP

Afin d'acquérir au plus vite une expérience sur l'assemblage et l'installation des éléments de la machine LEP (de la production à la mise sous vide en passant par la mise en place) il a été récemment décidé d'anticiper et d'accélérer ces opérations dans l'octant 1-2. Cette anticipation devrait permettre des tests d'injection de faisceau en été 1988.

Friday 18 September

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Frontiers of surface science

by G.A. SOMORJAI / Materials and Chemical
Sciences Division, LBL, and Dept. of Chemistry,
Univ. of California, Berkeley

Atomic scale scrutiny of clean solid surfaces and of adsorbed monolayers of molecules reveal the existence of unique two dimensional structures, surface phases and surface compounds and novel chemical bonding that is temperature and coverage dependent. As a result, applied surface phenomena that utilize the chemical (catalysis, corrosion), mechanical (fracture, lubrication) and electrical (surface space charge, electron transport) properties of surfaces are rapidly acquiring molecular foundation. New techniques opened up the solid-liquid and solid-solid interfaces to molecular level investigations. Examples of recent key findings of surface science research will be reviewed and likely future directions of research will be discussed.

* Tea and coffee will be provided at 16.00 hrs.

Tuesday 22 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Charged lepton interactions

by R. VOSS / University of Munich

Talk given at the 1987 International Symposium on Lepton and Photon Interactions, Hamburg.

* Tea and coffee will be provided at 16.00 hrs.

Mercredi 23 septembre

SEMINAIRE LEP

à 14.30 h – Auditorium du LEP
dernier étage du bât. 30

Conception des chambres à vide des zones expérimentales

par C. HAUVILLER / CERN-LEP

Thursday 24 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

New results from AMY at TRISTAN

by Yoshi SAKAI / KEK

Du mardi 13 au vendredi 16 octobre & du mardi 20 au vendredi 23 octobre

SEMINAIRE 4^e DIMENSION SUR MACINTOSH

- Deux semaines du mardi au vendredi à raison de huit demi-journées
- Introduction et programmation avec la 4^e dimension
- Nombre de places limité
- Pour tous renseignements et inscriptions, s'adresser à Mme W. HUG / EP, tél. STK 7159, le matin de 08.00 à 12.00 h
- Date limite d'inscription le mercredi 30 septembre.

TRAINING AND EDUCATION ENSEIGNEMENT

Services Educatifs

SERVICE D'APPUI LINGUISTIQUE DU CERN

COURS D'ANGLAIS ET D'ALLEMAND - SESSION 87-88

Les inscriptions pour les cours d'anglais et d'allemand sont ouvertes. Si vous êtes intéressé par ces cours, veuillez remplir le talon ci-dessous; un professeur prendra contact avec vous pour fixer un rendez-vous afin d'établir votre niveau et discuter de vos besoins.